



SPLIT SYSTEM AIR CONDITIONER

OWNER'S MANUAL & INSTALLATION MANUAL

MODELS: GD09I - GD12I - GD18I



Thank you for Choosing a Dimplex Air Conditioner, Please read this OWNERS MANUAL carefully prior to use.

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Do not carry out any operation marked by this symbol.



Always follow instructions for items marked with this symbol.

Thank you for choosing a DIMPLEX air conditioner, please read this owner's manual carefully before operating the unit and keep it for future reference.




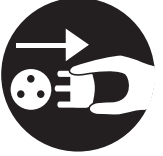

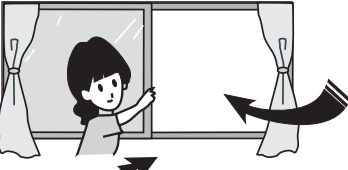

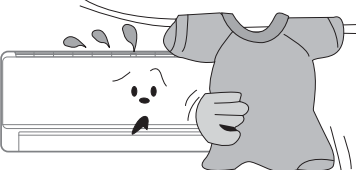

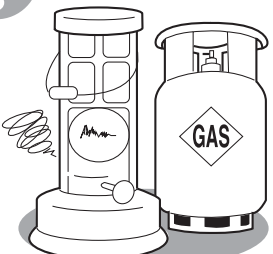

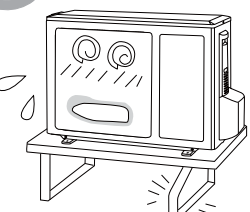

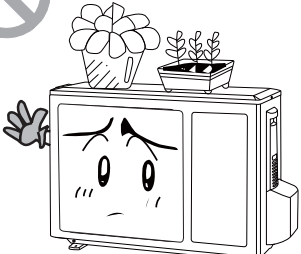

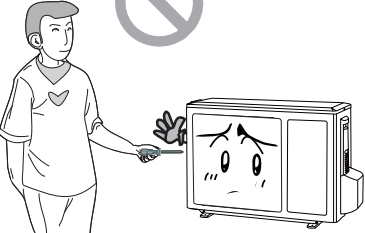
The product images in this manual may be slightly different to your actual unit. Depending on the model, some models have a display and some models don't, for actual position and shape of the displayer/finish please refer to the physical unit itself.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety.
Children should be supervised around this appliance at all times.



Do not dispose this product as unsorted municipal waste.
Collection of such inorganic waste requires special collection by local authorities.

◆ Operation and maintenance

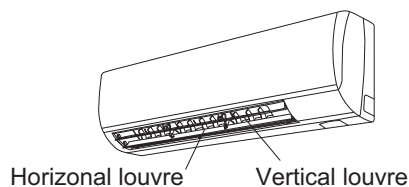
<p>⊠ This Dimplex Air conditioner must be installed by a qualified installer.</p>   <p>The appliance also needs to be wired by a qualified electrician.</p> <p>Failure to follow any terms depicted in this manual will void the warranty.</p>	<p>⊠ Unplug the air conditioner when not used for a long period.</p>  	<p>⊠ Select the most appropriate temperature.</p>  <p>This will save power usage</p>
<p>⊠ Do not leave windows and doors open for extended periods whilst running the air conditioner.</p>  <p>It will decrease the effectiveness of your air conditioner.</p>	<p>⊠ Do not block the air intake or outlet vents on either the outdoor or indoor units.</p>   <p>This may cause a malfunction or decrease the effectiveness of your air conditioner.</p>	<p>⊠ Keep flammable or combustible materials further than 1 m from this unit.</p>  
<p>⊠ Please make sure the stand under this unit is secure and solid.</p>   <p>If it is damaged or unstable, the unit may fall and cause injury. It may also not function correctly and it can void your Dimplex warranty.</p>	<p>⊠ Do not use the air conditioner as a step, or keep anything on top of the unit.</p>   <p>This can lead to injury to you and damage to the unit.</p>	<p>⊠ Do not disassemble, repair, or modify the unit.</p>   <p>Please contact a qualified technician for assistance with repairs.</p>

◆ Instructions prior to operation

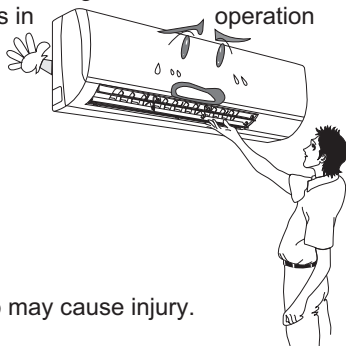
- ☒ If the power cord is damaged, it must be replaced by the manufacturer or a service agent or a similarly qualified person in order to avoid a hazard.



- ☒ The airflow direction is adjustable. The vertical direction of the airflow can be adjusted with the upward/downward louvers. The horizontal direction of airflow can be adjusted with the left / right louvers.

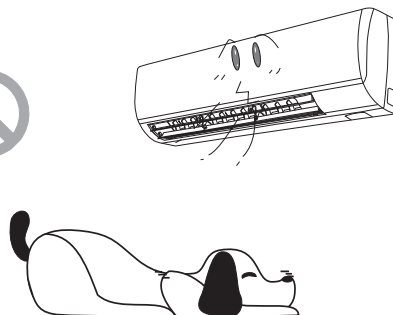


- ☒ Do not insert your hands into any part of the unit, including the intake/outlet vents, whilst unit is in operation



Doing so may cause injury.

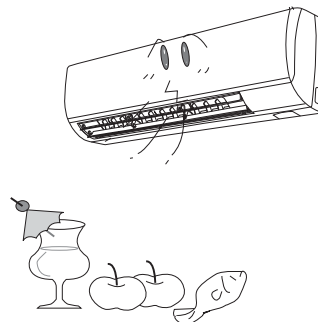
- ☒ Do not place plants or pets where they may be exposed to direct airflow from the air conditioner.



- ☒ Do not direct airflow onto persons for extended periods of time.



- ☒ Do not use the air conditioner for other purposes, such as drying clothes, preserving foods, etc.



- ☒ Splashing water on the air conditioner can cause an electric shock or malfunction.



- ☒ Do not place the unit near an oven or cooktop.



◆ How to use your Dimplex Air Conditioner

Working mechanism and special functions for cooling mode

Principle:

Air conditioners absorb the heat in a room, then transmit that heat outdoors, where it is then discharged. This decreases the ambient indoor temperature. The cooling capacity of the air conditioner may increase or decrease depending on the outdoor ambient temperature.

Anti-freezing function:

If the unit is running in COOL mode and the outdoor ambient temperature is low, frost may form on the heat exchanger. If the indoor heat exchanger temperature drops below 0 degrees Celsius, the unit's indoor microcomputer will stop the compressor in order to protect the unit.

Working mechanism and special functions for heating mode

Principle:

- * This unit also functions as a heater. It absorbs heat from outdoors and transmits it indoors, thereby raising the indoor ambient temperature. The effectiveness of this function may decrease if the outdoor ambient temperature decreases.
- * If the ambient outdoor temperature becomes too cold, please use other heating methods. The unit will continue to function down to -10 °C, however defrost settings will activate it self more often during these lower temperatures.

Defrosting:

- * If the ambient temperature outside is low but the humidity is high, frost may form on the outdoor unit and affect the heating capabilities. If this occurs, the auto-defrost function will activate and the fan motors on both the indoor and outdoor units will halt, disrupting the heat output for 8-10 minutes.
- * During the auto-defrost sequence, vapour may be emitted from the outdoor unit. This is normal and not a malfunction.
- * When the auto-defrost sequence is complete, heating will resume automatically.

The climate type of this unit is according to the nameplate.

The external static pressures at which the appliance was tested should be zero Pa.

◆ How to use your Dimplex Air Conditioner

Anti-cool air function:

The unit is designed not to blow cold air on HEAT mode when the indoor heat exchanger is in one of the following three situations:

1. When heating mode begins
2. After the auto-defrost function has just finished.
3. Heating in very low temperatures.

Gentle Breeze

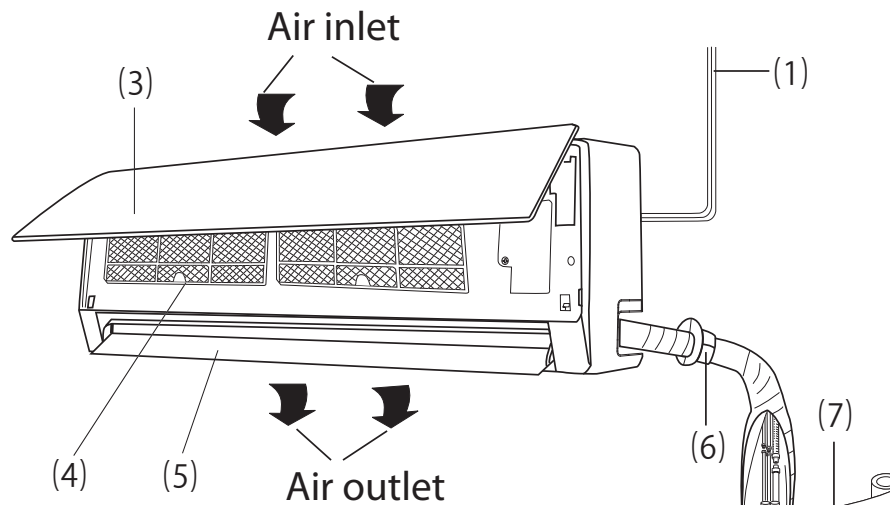
The unit may automatically rotate to a certain position and blow a gentle breeze in the following situations:

1. When the unit is turned on, in HEAT mode, and the compressor hasn't reached the starting position.
2. When the unit is in HEAT mode, the temperature has arrived at the prescribed value, and the compressor has stopped running for approximately 1 minute.

The operating temperature range (outdoor temperature) for cooling only models: 21°~43°C
for cooling and heating units: -10°~45°C

◆ Names and functions of each part

Indoor unit



Icons on display:

☀ : Cool

💧 : Dry

🌀 : Fan

☀ : Heat

⏻ : Run

88 : Set temp.

(2)

Remote Control

(1) Power cable

(2) Remote control

(3) Front panel

(4) Filter

(5) Guide louver

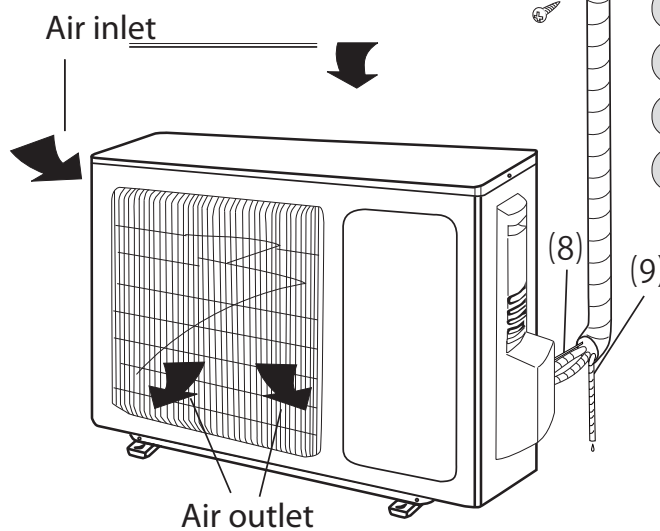
(6) Wall pipe

(7) Binding tape

(8) Connection wire

(9) Drainage hose

Outdoor unit



◆ Operation of remote control

Descriptions and functions of remote control

Make sure there is nothing obstructing the receiver or the remote control. Do not drop or throw the remote control. Keep liquids away from the remote control. Do not place the remote control in direct sunlight, or keep near very high temperatures.

Signal transmitter



Remote control

ON/OFF

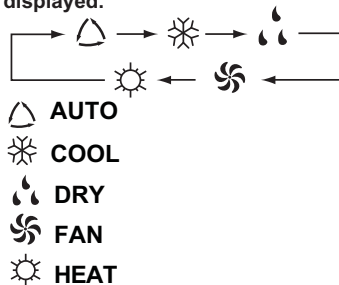
ON/OFF button

- Press this button to turn the unit on. Press it again to turn the unit off. When the unit is turned off, TIMER and SLEEP modes will be cancelled. The CLOCK will not be affected.

MODE

MODE button

- Press this button to change MODE. Five modes are available: AUTO, COOL, DRY, FAN, and HEAT. Each time the MODE button is pressed, the next mode is selected. AUTO MODE is the default setting. When HEAT mode is selected, the initial temperature is 28°C (82°F). In all other modes, the initial value is 25°C (77°F). In AUTO mode, the temperature is not displayed.



SLEEP

SLEEP button

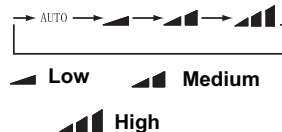
- Press this button to go into SLEEP mode. Press it again to cancel. When the unit is turned on, the SLEEP mode is automatically off. SLEEP mode is deactivated when the unit is turned off. After you have set SLEEP mode up, the SLEEP icon will be displayed. The timer can be adjusted in this mode.

FAN

FAN button

- Press this button to activate FAN mode. FAN speed can be selected in four steps: AUTO, LOW, MEDIUM, or HIGH. Each time the FAN button is pressed, the next speed is selected. When the unit is turned on, AUTO speed is automatically activated.

Please note: In DEHUMIDIFY and DRY modes, LOW speed is the only available option.



CLOCK

CLOCK button

- Press this button to set the CLOCK. Once this button is pushed, the ⌚ will blink. The time can now be adjusted using the + or - buttons. Press and hold the + or - buttons to change the time more quickly. Once you are finished, press the CLOCK button again and the ⌚ will stop blinking. When the ⌚ is not displayed, the TIMER is running.

LIGHT

LIGHT button

- Press this button to turn the LIGHT in the display panel on. Press it again to turn it off. The 💡 icon will be displayed whether the light is on or off.

◆ Operation of remote control

Description and functions of remote control

Please note: The remote control is the same for all units. Should your unit not support all the functions displayed on the remote control, pressing those buttons will not affect your unit. Some functions are model specific.



Remote control

+ -

+ and - buttons

- Press these buttons to change the temperature. Press and hold to change more rapidly. In AUTO mode, the temperature can not be altered.

Temperature ranges:
16-30°C
61-86°F

TURBO

TURBO button

- Press this button in Cool or Heat mode, to get a boost of fan speed and air circulation. An Icon will be displayed on screen indicating if its either on or off. This mode will automatically cancell it self if the fan speed or mode of operation is switched. It is not available on all models

TEMP

TEMP button

- When the unit is turned on, the set temperature is displayed. Press this button to display the set temperature indicated by . Press again to display the indoor ambient temperature indicated by . symbol indicates that the current display setting will not alter unless changed by user.

X-FAN

X-FAN button

- When you press the X-FAN button, the unit will continue to operate for 10 minutes after it has shut down to keep the unit dry. This function is not available in AUTO, FAN or HEAT mode. It is not available on all models.

◆ Operation of remote control

Description and functions of remote control

Please note: The remote control is the same for all units. Should your unit not support all the functions displayed on the remote control, pressing those buttons will not affect your unit.

Remote control



TIMER ON

TIMER ON BUTTON

- Press this button to set and activate the TIMER. To set the TIMER, press this button once. The [clock icon] will disappear, and the time displayed will change from the CLOCK to the TIMER. The word ON will blink for five seconds. While ON is blinking, use the + and - buttons to set the TIMER. Press and hold the + and - buttons to increase the rate of change. Once you have set the TIMER, press the TIMER ON button again to finalise the setting. Pressing the TIMER ON button again will cancel.

Please note: In order for the TIMER to be effective, the CLOCK needs to be accurate.



SWING UP AND DOWN BUTTON


- Press this button to change the SWING angle. Each time you press the button, the angle will change as follows:



This remote control is used for all models. If your unit supports three settings, the following settings are available:



When the guide louver starts to swing up and down, press the SWING button again to stop the louver in the current position.

 When this icon is showing, the guide louver will swing up and down between all five positions


TIMER OFF

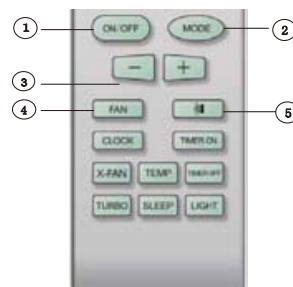
TIMER OFF BUTTON

- Press this button to set the TIMER OFF time. Follow the same setting instructions as the TIMER ON button.

◆ Operation of remote control

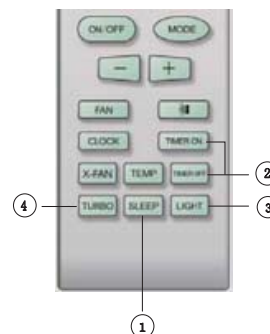
Guide for - General operation

1. Press this button to turn the unit ON. Press it again to turn the unit OFF.
When the unit is turned off, the guide louver will close automatically.
2. Press the MODE button to select the desired running mode.
3. Press the + and - buttons to set the temperature. If this unit is in AUTO mode, this step is unnecessary.
4. Press the FAN button to set the fan speed. Available selections are AUTO, LOW, MEDIUM, and HIGH.
5. Press the  button, to change the swing angle.



Guide for - Optional features

1. Press the SLEEP button to activate SLEEP mode.
2. Use the TIMER ON and TIMER OFF buttons to set the TIMER.
3. Press the LIGHT button to turn the display light on and off.
(This function is not available in some units.)
4. Press the TURBO button to activate TURBO mode.
Press it again to turn it off.



Special features explained

☒ X-FAN function

Once the unit is turned off, activating the X-Fan function dries the moisture on the indoor unit to prevent mould.

1. Once the X-Fan function is activated, press the ON/OFF button to turn the unit off. The indoor fan will keep running for about 10 minutes at low speed. To turn the fan off, press the X-Fan button again.
2. If the X-Fan function is not activated, when the ON/OFF button is pushed, the unit will be completely off.

☒ AUTO RUN

When AUTO RUN mode is selected, the set temperature will not be displayed on the display panel. The unit will automatically choose the mode to maintain the set temperature.



☒ TURBO Function

If the TURBO mode is selected, the unit will run at HIGH fan speed to cool or heat the room as quickly as possible.

◆ Operation of remote control

☒ 'Lock' Feature

Press + and - buttons simultaneously to lock or unlock the remote.

If the remote control is locked, the  will be displayed. If a button is pushed while the keypad is locked, the  will flash. When the keyboard is unlocked, the [lock icon] will disappear

☒ Swing Glider Operation

1. To change the angle of the guide louver, press and hold the SWING button. After about two seconds, the louver will start to swing. Press the SWING button again to freeze the louver in its current position.
2. Press the SWING button once to turn the SWING mode on. If you press the SWING button again within two seconds, you can cycle through the SWING angles. If you push the SWING button after two seconds, the SWING mode will be deactivated.


☒ Switching between Fahrenheit and Centigrade

When the unit is off, press the MODE and - buttons at the same time to change between F and C.

☒ The Manual Defrost Mode

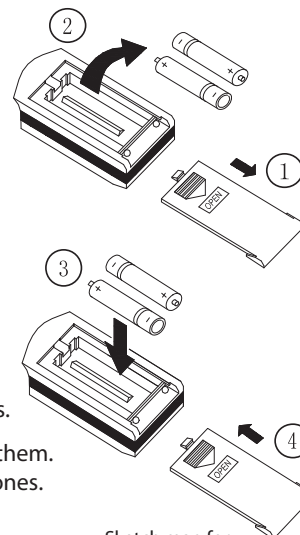
To activate the DEFROST function, the unit must be off. Press MODE and X-Fan buttons at the same time. If the unit is turned off while DEFROST function is activated, the unit will not shut down until after defrosting is complete. If the MODE is changed while DEFROST function is activated, the MODE will not activate until after the defrosting is completed. When the unit is turned on, the DEFROST function is automatically off.

Things to note when changing batteries

1. Press on the  and slide the cover in the direction the arrow is pointing (as shown below).
2. Remove the old batteries. (As shown)
3. Insert two new AAA 1.5V batteries. Make sure the batteries are positioned correctly (as shown).
4. Slide the cover back on.

☒ NOTE:

- ☒ Always replace old batteries with brand new batteries.
- ☒ If the remote control is not used for a long period of time, remove the batteries to prevent battery acid leakage.
- ☒ Make sure you are using the remote control within range of the unit.
- ☒ The remote control should not be used within 1 metre of televisions or stereos.
- ☒ If the remote control is not working, remove the batteries and then reinsert them. If the remote control is still not working, replace the old batteries with new ones.





Sketch map for
changing batteries

◆ Emergency operation

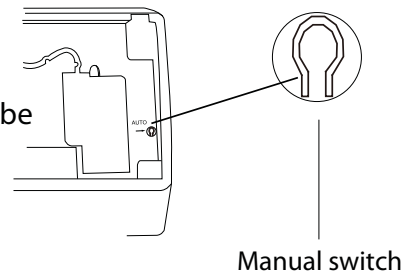
Turning the display light on/off

The LIGHT button allows you to turn the light on and off. You can use this feature to turn on/off the ambient light of the unit if you intend to sleep whilst the unit is operating.

- ☒ To turn the display light on: Press the LIGHT button. The  will appear on the remote control screen, and the light will turn on.
- ☒ To turn the display light off: Press the LIGHT button again. The  will disappear and the light will turn off.

Emergency - Manual operation

- ☒ If the remote control is lost, you can turn the unit on with the manual switch, which is located on the wall unit. The unit will run in AUTO mode, however the temperature and fan speed cannot be changed.



- ☒ Press the manual switch to turn the unit on. As the unit will run in AUTO mode, the microcomputer will select the mode and temperature.
- ☒ To turn the unit off, use the manual switch again.

◆ Clean and care



Caution

- Before cleaning, turn the power off and unplug the unit to prevent electric shock. To clean, use a damp cloth to wipe the unit down.
- Never put water on or in the unit when cleaning, or electric shock may occur.
- Never use flammable liquids to clean the air conditioner.

To clean the front panel

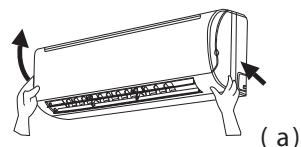
To clean the front panel, use a cool or lukewarm damp cloth and wipe the panel down. Never immerse the front panel in water, as this will damage the microcomputer and its circuits.

Clean the air filter every three months. If there is a lot of dust in or around the air conditioner, clean the air filter every month.

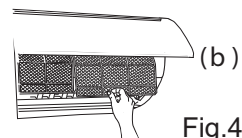
Please note: Once the filter has been removed, do not touch the fin inside the unit.

① To remove the air filter

Pull up gently on the front cover. The cover will hinge upward (figure a). Pull the air filter down and out of the unit (figure b).



(a)



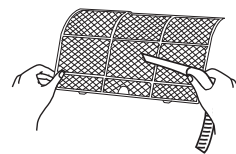
(b)

Fig.4

② To clean the air filter

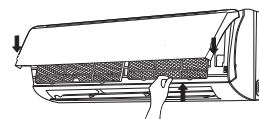
To clean the air filter, you can either use a vacuum cleaner OR wash the filter with warm water and a gentle detergent. Allow the filter to dry in a sheltered location.

Please note: Never clean the filter with water above 45°C, or the unit may become discolored or deformed. Never dry the filter by a fire.



③ To re-insert the air filter

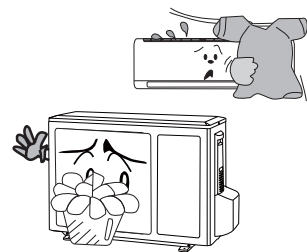
Slide the air filter back into the unit. Lower the front cover back into position and push gently to close.



◆ Clean and care

Check before use

- ① Make sure nothing is obstructing the intake or outlet vents.
- ② Make sure the ground wire is properly connected.
- ③ Check the batteries.
- ④ Make sure the outdoor stand is not damaged. If it is, please contact the retailer for further assistance.



Maintenance and Upkeep

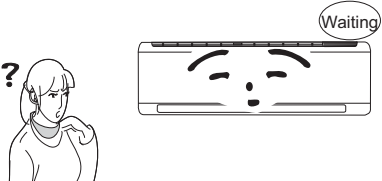
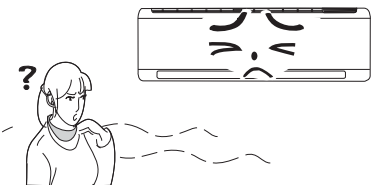
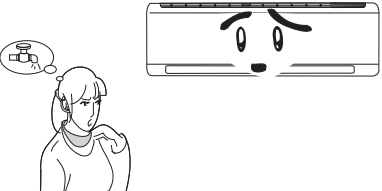
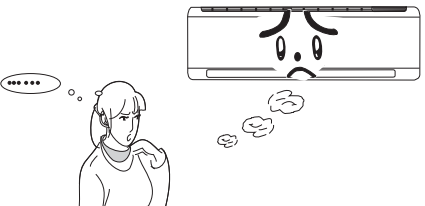
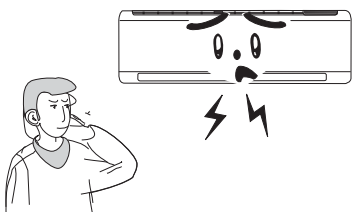
- ① Turn main power off.
- ② Clean the filter and wipe down the outside surfaces.
- ③ Clear dust and obstructions from the outdoor unit.

◆ Troubleshooting

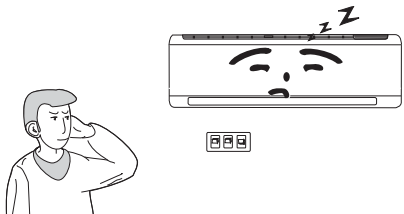
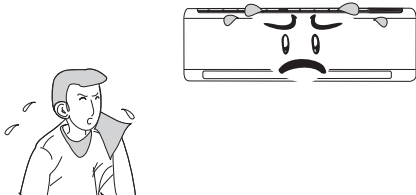
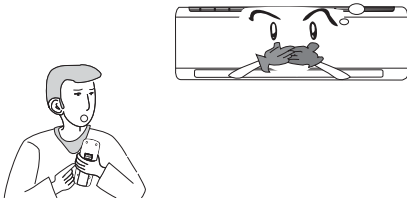


CAUTION

Do not attempt to repair the unit by yourself. If the unit is not functioning properly, please check the following troubleshooting guide before contacting Dimplex customer services.

Malfunction	Solution
<p>The unit does not restart.</p> 	<p>☒ Once the air conditioner has been turned off, it will not restart within three minutes. This is to prevent system overload.</p>
<p>There is a bad smell coming from the unit.</p> 	<p>☒ Clean the air filter. If the smell persists, please contact Dimplex customer services.</p>
<p>Gurgling or dripping sounds are heard from the unit.</p> 	<p>☒ This is due to refrigerant flowing inside the unit. This is normal.</p>
<p>In COOL mode, a mist is produced through the vent.</p> 	<p>☒ This can happen with high air temperature and humidity levels. After the unit has been running for a while, the mist will disappear.</p>
<p>Creaking noises are heard from the unit when it is turned on or off.</p> 	<p>☒ This is caused when changes in temperature warp the plastic. It is normal as long as its not continuous.</p>

◆ Troubleshooting

Malfunction	Solution
<p>The unit is not running.</p> 	<ul style="list-style-type: none"> ● Is the power turned off? ● Has the cable come out of the outlet? ● Has the circuit breaker tripped? ● Is the voltage of the outlet too high or too low? (Please get a professional to test this.) ● Is the TIMER on?
<p>The unit is not cooling or heating efficiently.</p> 	<ul style="list-style-type: none"> ● Is the set temperature suitable? ● Are the intake and outlet vents blocked? ● Is the filter dirty? ● Are the windows and doors open? ● Is the fan set on LOW speed? ● Are there any other heating or cooling sources in the room?
<p>The remote control is not working.</p> 	<ul style="list-style-type: none"> ● The unit can occasionally get overloaded from too many remote control commands. ● Is the remote control within range of the unit? Are there any obstructions? Are the batteries flat? ● The remote control may be damaged. Please check if the remote functions are operating as per normal.
<p>Water is leaking out of the indoor unit.</p>	<ul style="list-style-type: none"> ● The air humidity is very high and water condensation is dripping out. Turn unit off until humidity levels decrease. ● The connection between the drainage pipe and the unit is loose.
<p>Water is leaking from the outdoor unit.</p>	<ul style="list-style-type: none"> ● When the unit is running in COOL mode, water may condense on the pipe and pipe connection. ● When the unit is running in DEFROST mode, ice may have thawed and water is draining out. ● When the unit is running in HEAT mode, condensation is dripping from the heat exchanger.
<p>Noise being emitted from the indoor unit.</p>	<ul style="list-style-type: none"> ● The fan or the compressor relays are running. It is normal. ● When the DEFROST mode has just started or stopped, refrigerant is flowing.

◆ Troubleshooting

Malfunction	Solution
Indoor unit is not blowing out any air.	<ul style="list-style-type: none"> ● If the unit is running in HEAT mode and the temperature of the heat exchanger is very low, it will stop before cold air comes out. ● When the unit is running in HEAT mode and the outdoor temperature is low or the humidity is very high, frost may form on the outdoor heat exchanger. If this happens, the unit will automatically defrost. During the defrosting, air will stop blowing, and water or vapour may come out of the unit. ● If the unit is running in DEHUMIDIFY mode, the indoor fan may stop in order to prevent condensation from evaporating back into the air.
There is moisture on the air outlet vent.	<ul style="list-style-type: none"> ● If the unit is running in high humidity for long periods of time, moisture may condense and drip off the grill.



If any of the following situations occur, turn off and unplug the unit immediately and contact Dimplex customer services on 09 274 8265 (NZ) or 1300 556 816 (AUS)

- There is a loud or harsh sound coming from the unit.
- Water is leaking excessively from the indoor unit.
- The air switch or protection switch is broken.
- Water is spilled into the unit.
- The power cable and plug are abnormally hot.

Turn the unit off immediately.

◆ Installation Instructions



Important Notices

1. The unit must be installed by a qualified technician. Local laws and the instructions in this manual must be observed.
2. If the unit is not installed by an accredited installer, the unit may not be installed properly and malfunctions may occur. The Dimplex 5 year warranty will also be void.

Basic Requirements for Unit Location

This unit should not be installed in any of the following locations:

- Close to high heat sources or flammable vapours, gases, or materials.
- Close to high-frequency wave emissions, e.g. radio equipment, welding machinery, or medical equipment.
- Close to saltwater.
- Close to machine oil or vapours.
- Close to hot springs or sulfur vents.
- Other high-risk areas.

Choosing a Location for Your Indoor Unit

1. The air intake and outlet vents should not be blocked. Make sure air can circulate freely around the room.
2. Select a location where the condensed water can be easily drained. It should also be easily connectable to the outdoor unit.
3. The unit should be out of reach of children and pets.
4. The location must be strong enough to withstand the weight and vibration of the unit.
5. Make sure the unit is easily accessible for routine maintenance. The unit should be more than 2 meters off the floor.
6. The unit should be more than one metre away from televisions or other electric appliances.
7. Make sure the air filter is easily accessible.
8. The indoor unit location must comply with the installation dimension diagram requirements.
9. Do not install the unit close to a washing machine, clothes dryer, bath, shower, or swimming pool.

Choosing a Location for Your Outdoor Unit

1. Make sure the noise and air vents will not interfere with neighbours, animals, or plants.
2. Select a location where there will be sufficient ventilation.
3. Make sure the intake and outlet vents will not be blocked or obstructed in any way.
4. The location must be able to withstand the full weight and vibration of the unit.
5. Make sure the unit will be dry, but not directly in the sun or strong wind.
6. The outdoor unit location must comply with the installation dimension diagram requirements. It must also be easily accessible for maintenance and repair.
7. The Maximum height difference of connecting the piping with the indoor unit is 5m, the maximum length of connecting the piping should be 10m.
8. Select a location that is out of reach of children.
9. The unit should not be installed in such a way that will block walkways or footpaths, or in a location that will alter public spaces.

◆ Installation Instructions

Safety Requirements For Electric Appliances

1. The circuit and power supply must be compatible with the unit and cable.
2. Do not yank or tug on the power cable.
3. This unit must be properly grounded, and should therefore be installed by a qualified technician.
4. The unit should be installed at least 1.5 metres away from any flammable surface.
5. The unit must be installed in compliance with national and local wiring regulations.
6. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

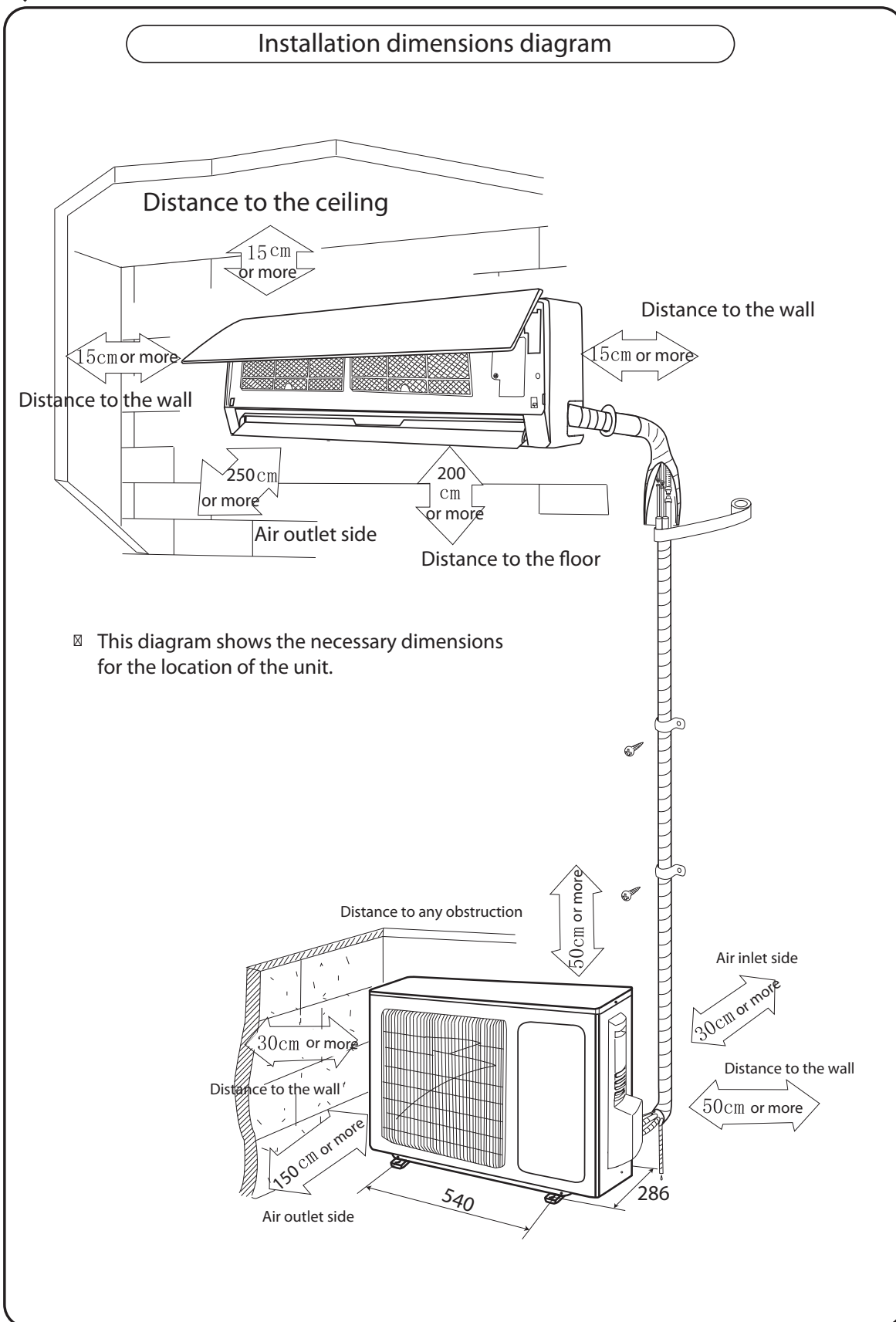
Note:

- ☒ Faulty or incorrect connection may cause a fire.

Grounding Requirements

1. This unit is a type I appliance, and therefore must be properly grounded.
2. The green and yellow wire in this unit is the grounding wire. It may not be used for any other purpose. Tampering with this wire in any way may cause electric shock.
3. The grounding must comply with Australasian regulations.
4. The unit must be grounded properly. Do not connect the grounding wire to any of the following:
 - ① Water pipes
 - ② Gas pipes
 - ③ Sewage pipes
 - ④ Other places deemed unacceptable by a qualified technician
5. The model and rating values for fuses are listed on the energy label sticker on fuse cover or on the back of the PCB.

◆ Installation dimension diagram



Installing the indoor unit

Installing the rear panel

1. Always mount the rear panel horizontally. As the water tray in the indoor unit has been designed to drain two ways, it is important to install the the water tray on a downward-sloping angle.
2. Use screws to attach the rear panel to the wall.
3. Make sure the panel can support a weight up to 60 kgs. The weight should be evenly distributed amongst the screws.

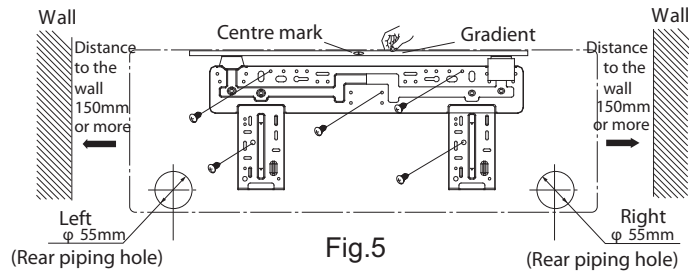
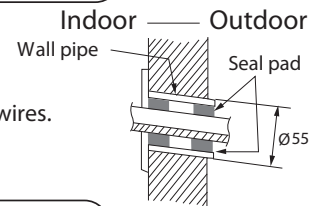


Fig.5

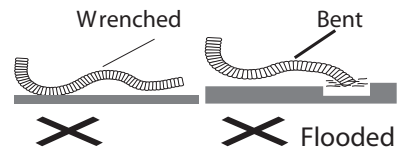
Installing the piping hole

1. Make the piping hole (Φ55) in the wall at a slight downward angle to the outdoor side.
2. Insert the piping-hole sleeve into the hole to protect the connection piping and wires.



Installing the water drainage pipe

1. Install the drain hose at a downward angle to ensure proper draining.
2. Do not wrench or bend the drain hose. Do not leave the free end in standing water.
3. If you are using a long drain hose and it will be indoors, wrap the hose in insulated material.



Connecting indoor and outdoor electric wires

1. Open the surface panel.
2. Remove the wiring cover as per Fig 6a(For models GD09/GD12) use Fig.6b (For GD18).
3. Pass the power cable and the signal control wire from the back of the unit in through the wiring hole.
4. Reattach the clasp and wiring cover.
5. Reattach the surface panel.

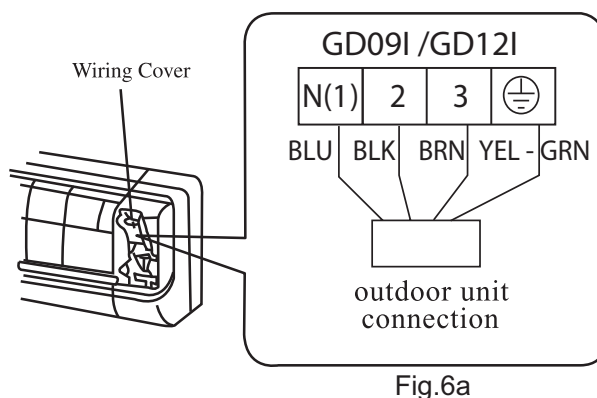


Fig.6a

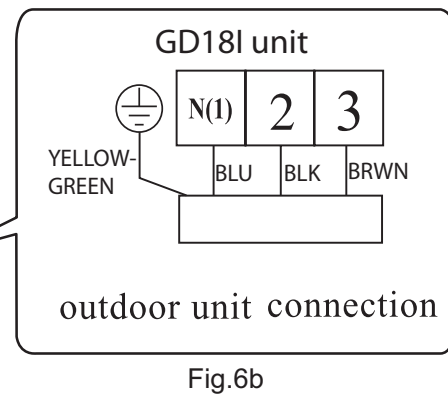


Fig.6b

◆ Installing the indoor unit

NOTE:

- ☒ Make sure the wires are all properly connected. Improper connections may result in malfunctions of the unit.
- ☒ Tighten the terminal screw to prevent the wires from disconnecting.
- ☒ Once the screw is tightened, tug gently on the wire to make sure it is properly connected.
- ☒ If the grounding wire is not properly connected, it may cause electric shock.
- ☒ The cover plate and connection wires must be properly attached. If they are not properly attached, dust and moisture can enter the unit, causing electric shock or fire hazard.

Installing the indoor unit

- ☒ The pipe can be routed out the right side, the right back corner, the left back corner, or the left side.
1. When routing the piping and/or wires out through the left or right sides, some trimming of the housing is necessary (see Fig. 7).
 - (1) If routing only the wires out the side, trim Housing 1.
 - (2) When routing both the wiring and the piping out the side, trim off Housing 1 and 2.
 2. Remove the piping from the case. Wrap the piping, wires, and water pipe in electrical tape, then pull them through the piping hole (see Fig. 8).
 3. Slide the mounting slots of the indoor unit onto the mounting plate of the rear panel. Make sure it is secure (see Fig. 9).
 4. The unit should be installed at least 2.5 metres off the floor.

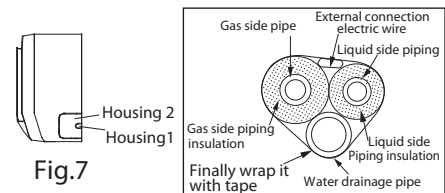


Fig.7

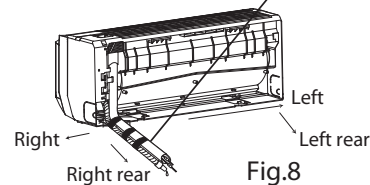


Fig.8

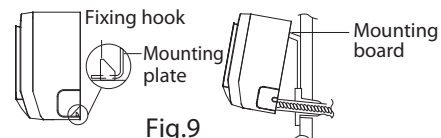
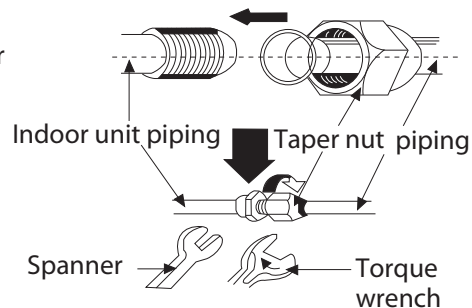


Fig.9

Installing the connection pipe

1. Align the pipe with the corresponding valve.
2. Screw the flare nut in first by hand, then use a spanner and a torque wrench to tighten the rest of the way.

Hex nut diameter	Tightening torque (Nm)
Φ6	15~20
Φ 9.52	31~35
Φ 12	50~55
Φ 16	60~65
Φ 19	70~75

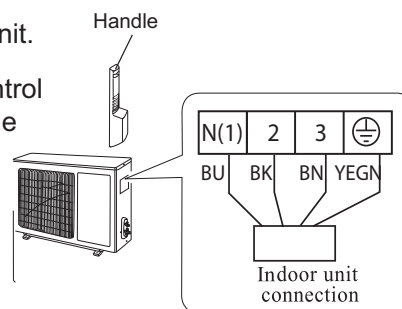


Please note: The connecting pipe needs to be connected first to the indoor unit, and then to the outdoor unit. Do not bend or damage the connection pipe. Do not tighten the nut too tightly; doing so may cause leakage in the future.

◆ Installing the outdoor unit

Electric wiring

1. Pull the handle on the right hand side of the outdoor unit.
2. Undo the clasp. Attach the power cable and signal control wire to the terminal. The wiring should match that of the indoor unit.
3. Attach the power cable to the wire clamp, then connect the corresponding connector.
4. Make sure all wires are properly connected.
5. Reattach the handle.



PLEASE NOTE:

- ☒ Incorrect wiring may cause the unit to malfunction.

Air purging and leakage test

1. Connect charging hose of manifold valve to the charge end of the low pressure valve (both high/low pressure valves must be tightly shut).
2. Connect joint of charging hose to vacuum pump.
3. Fully open low pressure manifold valve.
4. Open the vacuum pump to evacuate. At the beginning, slightly loosen joint nut of low pressure valve to check if there's air coming in. (If the vacuum pump noise has changed and the reading on the multimeter is 0) Then tighten the nut.
5. Keep evacuating for more than 15mins and make sure the reading of multi-meter is $-1.0 \times 10^5 \text{pa}$ (-76cmHg).
6. Fully open high/low pressure valves.
7. Remove charging hose from the low pressure valve.
8. Tighten low-pressure valve. (As shown in Fig 10).

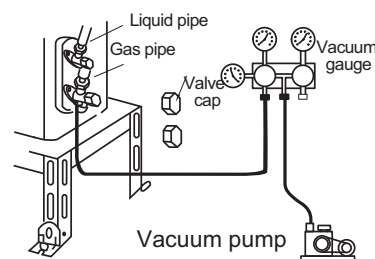
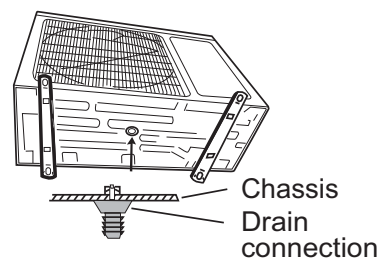


Fig. 10

Draining condensation from the outdoor unit

If the unit is properly installed, condensation and defrosted water will drain out of the drainage pipe.

Installation method: To install the drainage pipe, insert the nozzle of the pipe into the into the $\varnothing 25$ hole in the chassis. Water should now drain properly.



◆ Post-installation checklist and operation test

Check after installation

Things to check	If improperly installed...
Is the unit securely attached to the wall?	The unit may shake, make loud noises, or fall down.
Have you done the refrigerant leakage test?	The unit may not heat or cool efficiently.
Is the unit properly insulated?	Condensation may form.
Is the water draining properly?	The unit may leak.
Does the outlet match the voltage requirements of the unit?	The unit may malfunction.
Is all piping and wiring properly and securely installed?	The unit may malfunction.
Is the unit properly grounded?	It may leak electricity or cause electric shock or fire.
Is the proper power cable attached?	The unit may malfunction.
Are the intake or outlet vents blocked?	The unit may not heat or cool efficiently.
Has the length of connection pipes & refrigerant capacity is in accordance with specifications?	The unit might not work properly

Operation Test

1. Before testing operation

- (1) Do not turn the unit on before installation is complete.
- (2) Make sure all wiring is properly connected.
- (3) The cut-off valves of the connection pipes should be open.
- (4) Any scraps or rubbish must be removed from the unit.

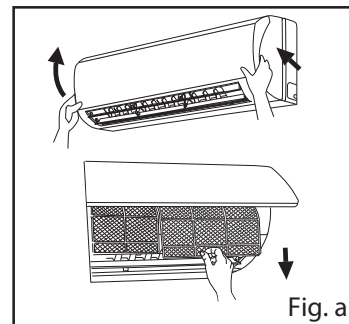
2. To test the unit:

- (1) Turn on the main power. Use the ON/OFF button on the remote control
- (2) Press the MODE button. Test the COOL, HEAT, and FAN functions to make sure everything is working properly.

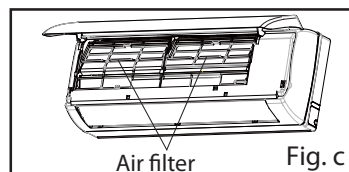
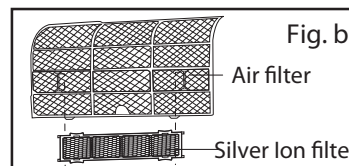
◆ Installation and Maintenance of Silver Ion Filter

Installation Instructions

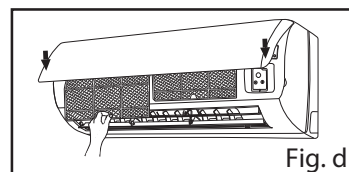
1. Pull up gently on the front cover. The cover will hinge upward. Pull the air filter down and out of the unit (see Figure a).



2. Mount the Silver Ion filter onto the air filter, (as shown in Figure b). If the air filter cannot be installed, mount the Silver Ion filter on to the front case. (as shown in Figure .c)



3. Slide the air filter back into the unit. Lower the front cover back into position and push gently to close (see Figure d).



Cleaning and Maintenance

You can remove the air filter for cleaning purposes. You can use water or a damp cloth to clean the normal air filter. However, **Do Not** clean the Silver Ion filter in water. Only use a soft cloth or a brush to wipe off any dust or dirt. None of the filters should be scrubbed with abrasive materials.

Service Life

The Silver Ion filter is usable for approximately one year, if it is taken care of properly. The silver ion filter must be replaced once it turns black or green.

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